# Application Number 10561033 Filing Date 2005-12-16 First Named Inventor Leifeng Cheng Art Unit 1624 Examiner Name Zachary C. Tucker Attorney Docket Number 133087.09601 101119-1P US

			U.S.PATENTS Rer				
Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	
	1	6884438		2005-04-26	Quintanar et al.		
	2	6074986		2000-06-13	Mulqueen et al.		
	3	4348385		1982-09-07	Synek		
	4	4610868		1986-09-09	Fountain et al.		
	5	4826689		1989-05-02	Violanto et al.		
	6	4997454		1991-03-05	Violanto et al.		
	7	5118528		1992-06-02	Fessi et al.		
	8	5145648		1992-09-08	Miyahara et al.		

Application Number		10561033		
Filing Date		2005-12-16		
First Named Inventor	Leifer	g Cheng		
Art Unit		1624		
Examiner Name Zacha		ary C. Tucker		
Attorney Docket Number		133087.09601 101119-1P US		

9	5145684	1992-09-08	Liversidge et al.	
10	5468604	1995-11-21	Zengerle et al.	
11	5665331	1997-09-09	Bagchi et al.	
12	5780062	1998-07-14	Frank et al.	
13	5858410	1999-01-12	Muller et al.	
14	5843465	1998-12-01	Lundquist	
15	5932245	1999-08-03	Wunderlich et al.	
16	6048550	2000-04-11	Chan et al.	
17	5314506	1994-05-24	Midler, Jr. et al.	
18	5624941	1997-04-29	Barth et al.	
19	6383471	2002-05-07	Chen et al.	

Application Number		10561033		
Filing Date		2005-12-16		
First Named Inventor	Leifer	ng Cheng		
Art Unit		1624		
Examiner Name Zacha		ary C. Tucker		
Attorney Docket Number		133087.09601 101119-1P US		

20	6432984		2002-08-13	Barth et al.			
21	6645985		2003-11-11	Barth et al.			
22	6375986		2002-04-23	Ryde et al.			
23	6127520		2000-10-03	Ueda et al.			
24	5100591		1992-03-31	Cerfontaine et al.			
25	7342019		2008-03-11	Berggren et al.			
n to ac	ld additional U.S. Paten	t citatio	n information pl	ease click the Add button.		Add	
		U.S.P.	ATENT APPLIC	CATION PUBLICATIONS		Remove	
Cite No	Publication Number	Kind Code <sup>1</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Releva	nt Passag	
1	20050009908		2005-01-13	Hedberg et al.			
2	20060141043		2006-06-29	Lindfors			
3	20060198893		2006-09-07	Lindfors			
	21 22 23 24 25 Cite No	21 6645985  22 6375986  23 6127520  24 5100591  25 7342019  1 to add additional U.S. Paten  Cite No Publication Number  1 20050009908  2 20060141043	21 6645985  22 6375986  23 6127520  24 5100591  25 7342019  1 to add additional U.S. Patent citation  U.S.P.  Cite No Publication Number Kind Code1  1 20050009908  2 20060141043	21 6645985 2003-11-11 22 6375986 2002-04-23 23 6127520 2000-10-03 24 5100591 1992-03-31 25 7342019 2008-03-11 2 to add additional U.S. Patent citation information pl U.S.PATENT APPLIC Cite No Publication Number Kind Code1 Publication 1 20050009908 2005-01-13 2 20060141043 2006-06-29	21 6645985 2003-11-11 Barth et al.  22 6375986 2002-04-23 Ryde et al.  23 6127520 2000-10-03 Ueda et al.  24 5100591 1992-03-31 Cerfontaine et al.  25 7342019 2008-03-11 Berggren et al.  26 10 add additional U.S. Patent citation information please click the Add button.  27 U.S.PATENT APPLICATION PUBLICATIONS  28 Cite No Publication Number Kind Code Publication Date Patentee or Applicant of cited Document  29 2005-01-13 Hedberg et al.  2006-06-29 Lindfors	21   6645985   2003-11-11   Barth et al.	21

Application Number		10561033		
Filing Date		2005-12-16		
First Named Inventor	Leifer	g Cheng		
Art Unit		1624		
Examiner Name	Zacha	ary C. Tucker		
Attorney Docket Number		133087.09601 101119-1P US		

			_								
	4	20050202092		2005-09	1-15	Skantze et al.					
	5	20020188007		2002-12	!-12	Barth et al.					
	6	20030059472		2003-03	-27	Brynjelsen et a	I.				
	7	20040039024		2004-02	?-26	Barth et al.					
	8	20070093484		2007-04-		Cheng					
	9	20060134146		2006-06	i-22	Lindfors					
If you wis	h to a	dd additional U.S. Publi	shed Ap	plication	citation	n information p	lease click the Ad	d butto	n. Add		
				FOREIG	SN PAT	ENT DOCUM	ENTS		Remove		
Examiner Initial*	Cite No	Foreign Document Number <sup>3</sup>	Country Code <sup>2</sup>		Kind Code <sup>4</sup>	Publication Date	Name of Patente Applicant of cited Document		Pages,Columbere Rele Passages of Figures Ap	vant or Relevant	T5
	1	9635414	wo			1996-11-14	CIBA-Geigy AG				
	2	9711686	WO			1997-04-03	Nanosystems LLC				
	3	9807414	wo			1998-02-26	Research Triangle Pharmaceuticals Lt	d.			
		l .	<b></b>		·		I				

Application Number		10561033		
Filing Date		2005-12-16		
First Named Inventor	Leifer	ng Cheng		
Art Unit		1624		
Examiner Name Zacha		ary C. Tucker		
Attorney Docket Number		133087.09601 101119-1P US		

4	9704756	wo	1997-02-13	Nanosystems LLC	
5	9624340	WO	1996-08-15	Nanosystems LLC	
6	0033820	wo	2000-06-15	BASF Aktiengesellschaft	
7	9713503	wo	1997-04-17	The Penn State Research Foundation	
8	9218105	wo	1992-10-29	Sandoz Ltd.	
9	0071079	wo	2000-11-30	American Bioscience, Inc.	
10	9900113	wo	1999-01-07	Vivorx Pharmaceuticals, Inc.	
11	03188438	JP	1991-08-16	Fuji Photo Film Co Ltd.	
12	589838	EP	1994-03-30	CIBA-Geigy AG	
13	9904766	wo	1999-02-04	Universite Claude Bernard Lyon I	
14	9632095	wo	1996-10-17	Astra Aktiebolag	

Application Number		10561033		
Filing Date		2005-12-16		
First Named Inventor Leifen		ng Cheng		
Art Unit		1624		
Examiner Name Zacha		ary C. Tucker		
Attorney Docket Number		133087.09601 101119-1P US		

15	9814174	wo	1998-04-09	Vivorx Pharmaceuticals, Inc.	
16	9823350	wo	1998-06-04	Zeneca Limited	
17	9959709	wo	1999-11-25	Zeneca Limited	
18	0038811	wo	2000-07-06	Glaxo Group Limited	
19	0044468	wo	2000-08-03	Bristol-Myers Squibb Company	
20	0170700	wo	2001-09-27	Solvay Pharmaceuticals B.V.	
21	0192293	wo	2001-12-06	Universiteit Leiden	
22	0200199	wo	2002-01-03	Glaxo Group Limited	
23	03035035	wo	2003-05-01	Glaxo Group Limited	
24	03013472	wo	2003-02-20	AstraZeneca AB	
25	2736230	DE	1978-02-16	Nippon Soda Co., Ltd.	

Application Number		10561033		
Filing Date		2005-12-16		
First Named Inventor	Leifer	ng Cheng		
Art Unit		1624		
Examiner Name Zacha		ary C. Tucker		
Attorney Docket Number		133087.09601 101119-1P US		

	26	275607	EP		1988-07-27	Nobel Kemi AB		
	27	2276567	GB		1994-05-10	United Kingdom Atomic Energy Authority		
	28	02055059	WO		2002-07-18	Baxter International Inc.		
	29	0377457	EP		1990-07-11	Fujisawa Pharmaceutical Co., Ltd.		
	30	0656354	EP		1995-06-07	Sanofi		
	31	0397859	EP		1990-11-22	Terumo Kabushiki Kaisha		
	32	458361	СН		1968-06-30	Eprova Ltd.		
	33	8904308	WO		1989-05-18	Terumo Kabushiki Kaisha		
If you wis	h to a	dd additional Foreign P	atent Document	citation	information pl	ease click the Add buttor		
	ı				RATURE DO		Remove	
Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.					T5	
	1	Final Rejection dated March 26, 2008 cited in Copending Application No. 10/486,211.						

Application Number		10561033		
Filing Date		2005-12-16		
First Named Inventor Leifen		ng Cheng		
Art Unit		1624		
Examiner Name Zacha		ary C. Tucker		
Attorney Docket Number		133087.09601 101119-1P US		

2	Non-final Office Action dated July 26, 2007 cited in Copending Application No. 10/486,211.	
3	Welin-Berger et al., "Inhibition of Ostwald ripening in local anesthetic emulsions by using hydrophobic excipients in the disperse phase," Int J Pharmaceut (2000) 200(2):249-260.	
4	Ostwald, "[Uber die vermeintliche Isomeric des roten und gelben Quecksilberoxyds und die Oberflachenspannung gester Korper,]" Phys. Chem (1900) 34:495-503.	
5	Higuchi et al., "Physical degradation of emulsions via the molecular diffusion route and the possible prevention thereof," J Pharm Sci (1962) 51:459-466.	
6	Kabalnov et al., "Ostwald ripening in two-component disperse phase systems: application to emulsion stability," Colloids and Surface (1987) 24:19-32.	
7	Lannibois et al., "Surfactant limited aggregation of hydrophobic molecules in water," Journal Phys II France (1997) 7:319-342.	
8	Lowe "Second-generation perfluorocarbon emulsion blood substitutes," Artificial Cell Blood Substitutes and Immob Biotech (2000) 28(1):25-38.	
9	Harding "The influence of lodide content on the ripening behavior of a model emulsion system," Photographic Science Engineering (1980) 24(1):32-44.	
10	Steffens et al., "O/W Emulsions as Vehicles for Micronized Drug Particles," Eur J Pharm, Biopharm (1991) 37 (4):219-226.	
11	Ruch et al., "Preparation of Micrometer Size Budesonide Particles by Precipitation," Journal of Colloid and Interface Science (2000) 229(1):207-211.	
12	Malcolmson et al., "Effect of oil on the level of solubilization of testosterone propionate into nonionic oil-in-water microemulsions," J Pharm Sci (1998) 87(1):109-116.	

Application Number		10561033		
Filing Date		2005-12-16		
First Named Inventor Leifen		ng Cheng		
Art Unit		1624		
Examiner Name Zacha		ary C. Tucker		
Attorney Docket Numb	er	133087.09601 101119-1P US		

13	Sjostrom et al., "The formation of submicron organic particles by precipitation in an emulsion," J Dispersion Science and Tech. (1994) 15(1):89-117.	
14	Sjostrom et al., "A method for the preparation of submicron particles of sparingly water-soluble drugs by precipitation in oil-in-water emulsions. II: influence of the emulsifier, the solvent, and the drug substance," J Pharm Sci (1993) 82 (6):584-589.	
15	Kasai et al., "Crystal growth of perylene microcrystals in the reprecipitation method," Bull Chem Soc Jpn (1998) 71:2597-2601.	
16	Kasai et al., "A novel preparation method of organic microcrystals," Jpn J Appl Phys (1992) 31:L1132-1134.	
17	Mohwald et al., "Imaging and other techniques," Current Opinion in Colloid and Interface Science (1997) 2:129-130.	
18	Goddard, "Polymer-surfactant interaction Part I. Uncharged water-soluble polymers and charged surfactants," Colloids and Surfaces (1986) 19:255-300.	
19	Scalzo et al., Farmaco, Societa Chimica Italiana (1988) 43(9):677-691.	
20	Taylor et al., "Pteridines. X New Approach to the Synthesis of Pteridines," Journal of American Chemical Socity (1953) 75:1904-1908.	
21	Boon et al., "Pteridines. Part V. Derivatives of 1:4-Dihydro-1-and 3:4-Dihydro-3-methyl-6:7-diphenylpteridine," J of Chemical Society (1957) 2159-2161.	
22	Al-Dabbagh et al., "Species differences in oxidative drug metabolism: some basic considerations," Archives of toxicology, Supplement Archiv fur Toxikologie. (1984) supplement 7:219-231.	
23	Bundgaard, Design of Prodrugs, page 1, copyright 1985, Elsevier Science Publishers.	

Application Number		10561033
Filing Date		2005-12-16
First Named Inventor Leifen		ng Cheng
Art Unit		1624
Examiner Name Zacha		ary C. Tucker
Attorney Docket Number		133087.09601 101119-1P US

24	Silverman, The Organic Chemistry of Drug Design and Drug Action (1992) Academic Press, Inc. pp. 356-400.	
25	Saikachi et al., "Synthesis of 2,3-bis (5-nitro-2-furyl) Pyrazine Derivatives," Yakugaku Zasshi (1966) 86(10):927-932 ENGLISH TRANSLATION.	
26	Notice of copending applications.	
27	Gavezzotti "Are Chrystal Structures Predictable?" Acc Chem Res (1994) 27:309-314.	
28	Martin "Frozen Transition States: Pentavalent Carbon et al," Science (1983) 221(4610):509-514.	
29	Brittain "X-Ray Powder Diffraction of Pharmaceutical Materials," American Pharmaceutical Review (2002) 5(1)74-80.	
30	Di Marzo et al., "Leptin-regulated endocannabinoids are involved in maintaining food intake," Nature (2001) 410:822-825.	
31	Howlett et al., "Azido- and isothiocyanato-substituted aryl pyrazoles bind covalently to the CB1 cannabinoid receptor and impair signal transduction," Journal of Neurochemistry (2000) 74(5):2174-2181.	
32	Office action dated May 4, 2007 received in copending application no. 10/543,264. (133087.10201)	
33	Notice of allowance dated February 8, 2008 received in copending application no. 10/543,264. (133087.10201)	
34	Office action dated March 8, 2007 received in copending application no. 10/499,054. (133087.08101)	

Application Number		10561033		
Filing Date		2005-12-16		
First Named Inventor Leifen		ng Cheng		
Art Unit		1624		
Examiner Name Zacha		ary C. Tucker		
Attorney Docket Numb	er	133087.09601 101119-1P US		

	35	Notice of allowance dated January 15, 2008 received in copending application no. 10/499,054. (133087.08101)					
	36	Notice of allowance dated May 1, 2008 received in copending application no. 10/561,060. (133087.09401)					
	37	Office Action dated January 7, 2008 received in copending application no. 10/561,060. (133087.09401)					
	38	Notice of allowance dated June 9, 2008 received in copending application no. 10/560,862. (133087.09301)					
	39	Office Action dated January 31, 2008 received in copending application no. 10/560,862. (133087.09301)					
If you wis	h to ac	additional non-patent literature document citation information please click the Add button Add					
EXAMINER SIGNATURE							
Examiner Signature Date Considered							
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							
<sup>1</sup> See Kind Codes of USPTO Patent Documents at <a href="https://www.USPTO.GOV">www.USPTO.GOV</a> or MPEP 901.04. <sup>2</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language translation is attached.							